

Mathematics and data

Thursday 12 September 2019

Agenda

The British Library
1st floor
96 Euston Road
NW1 2DB, UK

The Alan Turing Institute is located on the first floor (right hand side) of the British Library and can be accessed via the main doors from 09:30 onward. Please allow 15 minutes for queuing when planning your journey.

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| 10:00 – 10:30 | Registration |
| 10:30 – 10:35 | Introduction and welcome – Michael Farber (The Alan Turing Institute) |
| 10:35 – 11:20 | Expander graphs – Nati Linial (Hebrew University of Jerusalem) |
| 11:20 – 12:05 | Local view of combinatorial structures and applications to data analysis
– Chaim Even-Zohar (The Alan Turing Institute) |
| 12:05 – 12:50 | On the expressiveness of comparison queries – Shay Moran (Princeton University) |
| 12:50 – 13:45 | Lunch |
| 13:45 – 14:30 | Topological complexity and its applications – John Oprea (Cleveland State University) |
| 14:30 – 15:15 | Classical information theory of networks – Ginestra Bianconi (Queen Mary University of London and The Alan Turing Institute) |
| 15:15 – 15:30 | Break |
| 15:30 – 16:15 | An introduction to tropical geometry and connections to deep learning – Felipe Rincon (Queen Mary University of London) |
| 16:15 – 17:00 | The simplicity revolutions in the era of complexity and the unreasonable effectiveness of small neural ensembles in high-dimensional brain – Alexander Gorban (University of Leicester) |
| 17:00 – 17:15 | Event summary |
| 17:15 – 18:00 | Networking and event closes |